	•	_	*	<u>†</u>	1	4		
Maxament	EBL	<b>▼</b> EBR	NBL	NBT	<b>▼</b> SBT	SBR		
Movement						SDK		
Lane Configurations	<b>ነ</b>	1000	<b>ነ</b>	<b>^</b>	<b>ተተ</b> ሱ	1000		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0			
Lane Util. Factor	1.00	1.00	1.00	0.91	0.91			
Frt	1.00	0.85	1.00	1.00	0.97			
Flt Protected	0.95	1.00	0.95	1.00	1.00			
Satd. Flow (prot)	1770	1583	1770	5085	4958			
Flt Permitted	0.95	1.00	0.95	1.00	1.00			
Satd. Flow (perm)	1770	1583	1770	5085	4958			
Volume (vph)	200	50	140	1018	547	110		
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Adj. Flow (vph)	200	50	140	1018	547	110		
RTOR Reduction (vph)	0	40	0	0	20	0		
Lane Group Flow (vph)	200	10	140	1018	637	0		
Turn Type		Perm	Prot					
Protected Phases	4	1 41111	5	2	6			
Permitted Phases	•	4	5	2	O			
Actuated Green, G (s)	10.0	10.0	6.4	32.3	21.9			
Effective Green, g (s)	10.0	10.0	6.4	32.3	21.9			
Actuated g/C Ratio	0.20	0.20	0.13	0.64	0.44			
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0			
	3.0	3.0	3.0	3.0	3.0			
Vehicle Extension (s)								
Lane Grp Cap (vph)	352	315	225	3265	2159			
v/s Ratio Prot	c0.11	0.01	c0.08	c0.20	0.13			
v/s Ratio Perm		0.01	0.60	0.01	0.00			
v/c Ratio	0.57	0.03	0.62	0.31	0.29			
Uniform Delay, d1	18.2	16.2	20.8	4.0	9.2			
Progression Factor	1.00	1.00	1.00	1.00	1.00			
Incremental Delay, d2	2.1	0.0	5.3	0.1	0.1			
Delay (s)	20.3	16.3	26.1	4.1	9.3			
Level of Service	C	В	C	Α	Α			
Approach Delay (s)	19.5			6.7	9.3			
Approach LOS	В			Α	Α			
Intersection Summary								
HCM Average Control D	elay		9.1	I	ICM Lev	el of Service	<u> </u>	<u> </u>
HCM Volume to Capacit			0.41					
Actuated Cycle Length (s	•		50.3	S	um of lo	st time (s)	8.0	0
Intersection Capacity Uti	,		41.9%			1 of Service	A	
Analysis Period (min)			15	•			•	
c Critical Lane Group								

YEAR (2030) WITH PROJECT WITH ALTERNATIVE 2 CONDITIONS (HCM METHODOLOGY)

	<b>4</b>		7	<u> </u>	×	7	<u> </u>	#		<u>(</u>	×	<del>~</del>
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	NY.	<u>↑</u>	DLK	T T	<b>↑</b>	71111	TILE I	<u> </u>	HER	3WE	<u> </u>	5 W K
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	1900	4.0	4.0	4.0	4.0	4.0	1900	4.0	4.0	4.0
Lane Util. Factor	0.97	0.95		1.00	0.95	1.00	1.00	1.00		0.97	1.00	0.88
Frt	1.00	1.00		1.00	1.00	0.85	1.00	0.98		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3433	3526		1770	3539	1583	1770	1826		3433	1863	2787
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3433	3526		1770	3539	1583	1770	1826		3433	1863	2787
	560	1509	40	30	1278	266	20	200				
Volume (vph) Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		1.00	30	306	50	770
Adj. Flow (vph)	560	1509	40	30	1278	266	1.00 20	200	1.00 30	1.00 306	1.00 50	1.00 770
RTOR Reduction (vph)	0	1309		0	0	83						425
· - /	560	1548	0	30	1278	183	0 20	226	0	0	0 50	
Lane Group Flow (vph)		1348	0		12/8			226	0	306		345
Turn Type	Prot	4		Prot	0	Perm	Prot	2		Prot	_	Perm
Protected Phases	7	4		3	8	0	5	2		1	6	
Permitted Phases	20.0	63.1		2.2	15 5	8 45.5	1.5	10.0		12.4	20.7	6
Actuated Green, G (s)	20.9			3.3 3.3	45.5 45.5		1.5	19.8 19.8		12.4	30.7	30.7
Effective Green, g (s) Actuated g/C Ratio	20.9	63.1				45.5	1.5			12.4	30.7	30.7
S .	0.18	0.55		0.03	0.40	0.40	0.01	0.17		0.11	0.27	0.27
Clearance Time (s)	4.0 3.0	4.0		4.0 3.0	4.0 3.0	4.0	4.0	4.0		4.0	4.0	4.0
Vehicle Extension (s)		3.0				3.0	3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	626	1941		51	1405	629	23	315		371	499	747
v/s Ratio Prot	c0.16	0.44		0.02	c0.36	0.10	0.01	c0.12		c0.09	0.03	0.40
v/s Ratio Perm	0.00	0.00		0.50	0.01	0.12	0.07	0.50		0.00	0.10	0.12
v/c Ratio	0.89	0.80		0.59	0.91	0.29	0.87	0.72		0.82	0.10	0.46
Uniform Delay, dl	45.8	20.6		55.0	32.6	23.5	56.5	44.8		50.0	31.6	35.1
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	15.2	2.4		16.1	8.9	0.3	127.6	7.6		13.8	0.1	0.5
Delay (s)	61.0	23.0		71.1	41.5	23.8	184.0	52.3		63.9	31.6	35.5
Level of Service	E	C		E	D	C	F	D		E	C	D
Approach Delay (s)		33.1			39.1			62.9			43.0	
Approach LOS		С			D			E			D	
Intersection Summary							_		_			
HCM Average Control Do	-		38.6	F	ICM Lev	vel of Se	rvice		D			
HCM Volume to Capacity			0.86									
Actuated Cycle Length (s)			114.6			st time (	,		16.0			
Intersection Capacity Util	ization		85.7%	I	CU Leve	el of Serv	rice		E			
Analysis Period (min)			15									
c Critical Lane Group												

	•	<b>→</b>	<b>←</b>	4	<b>\</b>	4	,	
Movement	EBL	EBT	WBT	WBR	SBL	SBR		
Lane Configurations	ሻ	<b>^</b>	<b>†</b>		ሻሻ	7		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	4.0	4.0	4.0		4.0	4.0		
Lane Util. Factor	1.00	0.95	0.95		0.97	1.00		
Frt	1.00	1.00	0.99		1.00	0.85		
Flt Protected	0.95	1.00	1.00		0.95	1.00		
Satd. Flow (prot)	1770	3539	3519		3433	1583		
Flt Permitted	0.95	1.00	1.00		0.95	1.00		
Satd. Flow (perm)	1770	3539	3519		3433	1583		
Volume (vph)	150	1515	1153	46	96	350		
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00		
Adj. Flow (vph)	150	1515	1153	46	96	350		
RTOR Reduction (vph)	0	0	3	0	0	30		
Lane Group Flow (vph)	150	1515	1196	0	96	320		
Turn Type	Prot					pm+ov		
Protected Phases	7	4	8		6	7		
Permitted Phases						6		
Actuated Green, G (s)	11.0	41.2	26.2		7.5	18.5		
Effective Green, g (s)	11.0	41.2	26.2		7.5	18.5		
Actuated g/C Ratio	0.19	0.73	0.46		0.13	0.33		
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0		
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0		
Lane Grp Cap (vph)	343	2572	1626		454	628		
v/s Ratio Prot	0.08	c0.43	c0.34		0.03	c0.10		
v/s Ratio Perm						0.10		
v/c Ratio	0.44	0.59	0.74		0.21	0.51		
Uniform Delay, d1	20.1	3.7	12.4		22.0	15.4		
Progression Factor	1.00	1.00	1.00		1.00	1.00		
Incremental Delay, d2	0.9	0.3	1.8		0.2	0.7		
Delay (s)	21.0	4.1	14.2		22.2	16.1		
Level of Service	C	Α	В		C	В		
Approach Delay (s)		5.6	14.2		17.4			
Approach LOS		Α	В		В			
Intersection Summary								
HCM Average Control De	elay		10.3	Н	CM Lev	vel of Serv	rice B	
HCM Volume to Capacity	•		0.70					
Actuated Cycle Length (s)			56.7	S	um of lo	st time (s)	12.0	
Intersection Capacity Utili	ization		61.7%			el of Servi		
Analysis Period (min)			15					
c Critical Lane Group								

	•	-	₩	•	-	4	
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	<u> </u>	<b>^</b>	<b>^</b>	7	*1	7	-
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor	1.00	0.95	0.95	1.00	1.00	1.00	
Frt	1.00	1.00	1.00	0.85	1.00	0.85	
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (prot)	1770	3539	3539	1583	1770	1583	
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (perm)	1770	3539	3539	1583	1770	1583	
Volume (vph)	190	1441	1178	189	329	290	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	
Adj. Flow (vph)	190	1441	1178	189	329	290	
RTOR Reduction (vph)	0	0	0	98	0	214	
Lane Group Flow (vph)	190	1441	1178	91	329	76	
Turn Type	Prot			Perm		Perm	
Protected Phases	7	4	8		6		
Permitted Phases				8		6	
Actuated Green, G (s)	10.9	49.3	34.4	34.4	20.4	20.4	
Effective Green, g (s)	10.9	49.3	34.4	34.4	20.4	20.4	
Actuated g/C Ratio	0.14	0.63	0.44	0.44	0.26	0.26	
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	248	2245	1567	701	465	416	
v/s Ratio Prot	c0.11	0.41	c0.33		c0.19		
v/s Ratio Perm				0.06		0.05	
v/c Ratio	0.77	0.64	0.75	0.13	0.71	0.18	
Uniform Delay, d1	32.2	8.8	18.1	12.8	25.9	22.2	
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2	13.2	0.6	2.1	0.1	4.9	0.2	
Delay (s)	45.4	9.4	20.2	12.9	30.8	22.4	
Level of Service	D	Α	C	В	C	C	
Approach Delay (s)		13.6	19.2		26.9		
Approach LOS		В	В		C		
Intersection Summary							
HCM Average Control De	-		18.0	H	ICM Lev	el of Servic	ce B
HCM Volume to Capacity			0.74				
Actuated Cycle Length (s)	,		77.7			st time (s)	12.0
Intersection Capacity Util	ization		71.3%	I	CU Leve	l of Service	C
Analysis Period (min)			15				
c Critical Lane Group							

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	۶	-	<b>←</b>	•	<b>\</b>	✓	
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	7	ተተ	<b>^</b>	7	ሻ	7	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor	1.00	0.95	0.95	1.00	1.00	1.00	
Frt	1.00	1.00	1.00	0.85	1.00	0.85	
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (prot)	1770	3539	3539	1583	1770	1583	
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (perm)	1770	3539	3539	1583	1770	1583	
Volume (vph)	70	1631	1338	30	90	90	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	
Adj. Flow (vph)	70	1631	1338	30	90	90	
RTOR Reduction (vph)	0	0	0	14	0	75	
Lane Group Flow (vph)	70	1631	1338	16	90	15	
Turn Type	Prot			Perm		Perm	
Protected Phases	7	4	8		6		
Permitted Phases				8		6	
Actuated Green, G (s)	4.5	38.0	29.5	29.5	8.9	8.9	
Effective Green, g (s)	4.5	38.0	29.5	29.5	8.9	8.9	
Actuated g/C Ratio	0.08	0.69	0.54	0.54	0.16	0.16	
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	145	2450	1902	851	287	257	
v/s Ratio Prot	0.04	c0.46	0.38		c0.05		
v/s Ratio Perm				0.01		0.01	
v/c Ratio	0.48	0.67	0.70	0.02	0.31	0.06	
Uniform Delay, d1	24.1	4.8	9.4	5.9	20.3	19.5	
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2	2.5	0.7	1.2	0.0	0.6	0.1	
Delay (s)	26.6	5.5	10.6	5.9	20.9	19.5	
Level of Service	C	Α	В	Α	C	В	
Approach Delay (s)		6.4	10.5		20.2		
Approach LOS		Α	В		С		
Intersection Summary							
HCM Average Control D	elav	_	8.9	TH	ICM Lev	el of Servic	ce A
HCM Volume to Capacity	•		0.60	1.		OI OI DOI VIC	11
Actuated Cycle Length (s			54.9	9	um of lo	st time (s)	8.0
Intersection Capacity Util			56.7%			of Service	
Analysis Period (min)			15	1,	CO LOVE	. 51 501 1100	
c Critical Lane Group			13				
c Citical Lane Gloup							

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Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	ሻ	ተተ	<b>^</b>	7	7	7	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor	1.00	0.95	0.95	1.00	1.00	1.00	
Frt	1.00	1.00	1.00	0.85	1.00	0.85	
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (prot)	1770	3539	3539	1583	1770	1583	
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (perm)	1770	3539	3539	1583	1770	1583	
Volume (vph)	20	1661	1318	10	40	20	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	
Adj. Flow (vph)	20	1661	1318	10	40	20	
RTOR Reduction (vph)	0	0	0	4	0	17	
Lane Group Flow (vph)	20	1661	1318	6	40	3	
Turn Type	Prot	_		Perm		Perm	
Protected Phases	7	4	8		6		
Permitted Phases				8		6	
Actuated Green, G (s)	1.0	32.6	27.6	27.6	7.0	7.0	
Effective Green, g (s)	1.0	32.6	27.6	27.6	7.0	7.0	
Actuated g/C Ratio	0.02	0.68	0.58	0.58	0.15	0.15	
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	37	2424	2052	918	260	233	
v/s Ratio Prot	0.01	c0.47	0.37		c0.02		
v/s Ratio Perm				0.00		0.00	
v/c Ratio	0.54	0.69	0.64	0.01	0.15	0.01	
Uniform Delay, d1	23.1	4.5	6.7	4.2	17.7	17.3	
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2	15.1	0.8	0.7	0.0	0.3	0.0	
Delay (s)	38.2	5.3	7.4	4.2	18.0	17.4	
Level of Service	D	Α	Α	Α	В	$\mathbf{B}$	
Approach Delay (s)		5.7	7.4		17.8		
Approach LOS		Α	Α		В		
Intersection Summary							
HCM Average Control De	elay		6.6	H	ICM Lev	el of Servic	e A
HCM Volume to Capacity			0.59				
Actuated Cycle Length (s)	)		47.6			st time (s)	8.0
Intersection Capacity Util			55.9%	I	CU Leve	of Service	В
Analysis Period (min)			15				
c Critical Lane Group							

129: Pacific (	Coast Hwy	&	6th	St
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Synchro	6 Report
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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	<u> </u>	ተተ <sub>ጉ</sub>		٦	ተተ <sub>ጉ</sub>			4		ሻ		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	
Lane Util. Factor	1.00	0.91		1.00	0.91			1.00		1.00	1.00	
Frt	1.00	1.00		1.00	0.99			0.96		1.00	0.88	
Flt Protected	0.95	1.00		0.95	1.00			0.98		0.95	1.00	
Satd. Flow (prot)	1770	5076		1770	5059			1740		1770	1632	
Flt Permitted	0.95	1.00		0.95	1.00			0.46		0.66	1.00	
Satd. Flow (perm)	1770	5076		1770	5059			825		1223	1632	
Volume (vph)	118	1639	20	40	1167	41	40	20	30	50	30	142
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	118	1639	20	40	1167	41	40	20	30	50	30	142
RTOR Reduction (vph)	0	1	0	0	3	0	0	16	0	0	126	0
Lane Group Flow (vph)	118	1658	0	40	1205	0	0	74	0	50	46	0
Turn Type	Prot			Prot			Perm			Perm		
Protected Phases	7	4		3	8			2			6	
Permitted Phases							2			6		
Actuated Green, G (s)	9.6	40.2		4.1	34.7			11.3		11.3	11.3	
Effective Green, g (s)	9.6	40.2		4.1	34.7			11.3		11.3	11.3	
Actuated g/C Ratio	0.10	0.41		0.04	0.35			0.11		0.11	0.11	
Clearance Time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	
Vehicle Extension (s)	3.0	3.0		3.0	3.0			3.0	_	3.0	3.0	
Lane Grp Cap (vph)	172	2065		73	1777			94		140	187	
v/s Ratio Prot	c0.07	c0.33		0.02	0.24						0.03	
v/s Ratio Perm								c0.09		0.04		
v/c Ratio	0.69	0.80		0.55	0.68			0.79		0.36	0.25	
Uniform Delay, d1	43.1	25.8		46.4	27.3			42.6		40.4	39.9	
Progression Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
Incremental Delay, d2	10.8	2.4		8.2	1.0			34.2		1.6	0.7	
Delay (s)	53.9	28.2		54.6	28.3			76.7		42.0	40.6	
Level of Service	D	С		D	C			E		D	D	
Approach Delay (s)		29.9			29.2			76.7			40.9	
Approach LOS		C			C			E			D	
Intersection Summary												
HCM Average Control De	elay		31.6	F	ICM Lev	vel of Ser	vice		С			
HCM Volume to Capacity	y ratio		0.76									
Actuated Cycle Length (s	)		98.8	S	um of lo	st time (s	s)		39.2			
Intersection Capacity Util			64.2%			el of Serv			C			
Analysis Period (min)			15									
c Critical Lane Group												

130. Facilie Coast Hwy	<u> </u>	<u> </u>		<b>—</b>	•	$\overline{}$	1	
			WDI.	шот	WDD	CDI	CDD	
Movement	EBL	EBT	WBU	WBT	WBR	SBL	SBR	
Lane Configurations	<b>ነ</b> ሻ	<b>↑</b> ↑↑	1000	<b>↑</b> ↑↑	<b>ام</b> 1000	<b>ነ</b>	<b>ام</b> 1000	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	
Total Lost time (s)		4.0	4.0	4.0				
Lane Util. Factor		0.91	1.00	0.91				
Frt		1.00	1.00	1.00				
Flt Protected		1.00	0.95	1.00				
Satd. Flow (prot)		5085	1770	5085				
Flt Permitted		1.00	0.95	1.00				
Satd. Flow (perm)		5085	1770	5085				<u>_</u>
Volume (vph)	0	1640	10	1280	0	0	0	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Adj. Flow (vph)	0	1640	10	1280	0	0	0	
RTOR Reduction (vph)	0	0	0	0	0	0	0	
Lane Group Flow (vph)	0	1640	10	1280	0	0	0	
Turn Type	Prot		Prot		Perm		Perm	
Protected Phases	7	4	3	8		6		
Permitted Phases					8		6	
Actuated Green, G (s)		34.2	1.1	39.3				
Effective Green, g (s)		34.2	1.1	39.3				
Actuated g/C Ratio		0.41	0.01	0.47				
Clearance Time (s)		4.0	4.0	4.0				
Vehicle Extension (s)		3.0	3.0	3.0				
Lane Grp Cap (vph)		2083	23	2393				
v/s Ratio Prot		c0.32	0.01	c0.25				
v/s Ratio Perm								
v/c Ratio		0.79	0.43	0.53				
Uniform Delay, d1		21.5	40.9	15.6				
Progression Factor		1.00	1.00	1.00				
Incremental Delay, d2		2.0	12.6	0.2				
Delay (s)		23.5	53.5	15.9				
Level of Service		C	D	В				
Approach Delay (s)		23.5		16.2		0.0		
Approach LOS		C		В		Α		
Intersection Summary								
HCM Average Control De	alav		20.3	1	HCM Lev	el of Se	rzice	С
HCM Volume to Capacity			0.80		ICM Lev	7CI 01 3C	IVICE	C
Actuated Cycle Length (s)			83.5		Sum of lo	et time (	e)	48.2
Intersection Capacity Util			35.0%		CU Leve			A
Analysis Period (min)	ization		15	1	CO Leve	01 361	rice	A
c Critical Lane Group			13					
c Chilcal Lane Gloup								

	۶	<b>→</b>	•	€	<b>—</b>	•	1	<u>†</u>	<b>/</b>	<b>/</b>	<b>+</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	ተተ <sub>ጉ</sub>		<u>*</u>	ተተ <sub>ጉ</sub>		*5	4	7	<u>ች</u>	<u> </u>	77
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Lane Util. Factor	1.00	0.91		1.00	0.91		0.95	0.95	1.00	0.95	0.95	0.88
Frt	1.00	0.99		1.00	0.96		1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00		0.95	0.99	1.00	0.95	0.97	1.00
Satd. Flow (prot)	1770	5050		1770	4890		1681	1753	1583	1681	1716	2787
Flt Permitted	0.95	1.00		0.95	1.00		0.95	0.99	1.00	0.95	0.97	1.00
Satd. Flow (perm)	1770	5050		1770	4890		1681	1753	1583	1681	1716	2787
Volume (vph)	170	1442	70	40	865	298	70	50	20	329	80	500
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	170	1442	70	40	865	298	70	50	20	329	80	500
RTOR Reduction (vph)	0	4	0	0	50	0	0	0	18	0	0	426
Lane Group Flow (vph)	170	1508	0	40	1113	0	58	62	2	199	210	74
Turn Type	Prot			Prot			Split		Perm	Split		Perm
Protected Phases	7	4		3	8		2	2		6	6	
Permitted Phases									2			6
Actuated Green, G (s)	12.0	37.7		3.2	28.9		9.3	9.3	9.3	15.7	15.7	15.7
Effective Green, g (s)	12.0	37.7		3.2	28.9		9.3	9.3	9.3	15.7	15.7	15.7
Actuated g/C Ratio	0.11	0.34		0.03	0.26		0.08	0.08	0.08	0.14	0.14	0.14
Clearance Time (s)	4.0	4.0		4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0	_	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	190	1701		51	1263		140	146	132	236	241	391
v/s Ratio Prot	c0.10	c0.30		0.02	0.23		0.03	c0.04		0.12	c0.12	
v/s Ratio Perm									0.00			0.03
v/c Ratio	0.89	0.89		0.78	0.88		0.41	0.42	0.01	0.84	0.87	0.19
Uniform Delay, d1	49.3	35.1		54.0	39.9		48.7	48.8	47.1	46.9	47.1	42.5
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	37.2	6.0		53.8	7.5		2.0	2.0	0.0	23.0	27.2	0.2
Delay (s)	86.5	41.1		107.8	47.4		50.7	50.7	47.1	69.9	74.4	42.7
Level of Service	F	D		F	D		D	D	D	Е	E	D
Approach Delay (s)		45.7			49.4			50.2			56.0	
Approach LOS		D			D			D			E	
Intersection Summary												
HCM Average Control De	•		49.3	F	ICM Lev	vel of Ser	vice		D			
HCM Volume to Capacity			0.80									
Actuated Cycle Length (s)			111.9			st time (s			42.0			
Intersection Capacity Util	ization		60.7%	I	CU Leve	el of Serv	ice		В			
Analysis Period (min)			15									
<ul> <li>c Critical Lane Group</li> </ul>												

134: Pacific	Coast Hwy &	& Huntington	

134. I dellie Coast IIWy	C Hull	mgton									nemo o	report
	•	<b>→</b>	•	•	<b>←</b>	•	1	†	<i>&gt;</i>	<b>\</b>	ļ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	75	<b>^</b>	7	<u> </u>	<b>^</b>	7		4T <del>)</del>		*	4	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0		4.0		4.0	4.0	4.0
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	1.00		0.95		0.95	0.95	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85		0.91		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00		0.99		0.95	1.00	1.00
Satd. Flow (prot)	1770	3539	1583	1770	3539	1583		3213		1681	1770	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00		0.99		0.95	1.00	1.00
Satd. Flow (perm)	1770	3539	1583	1770	3539	1583		3213		1681	1770	1583
Volume (vph)	30	1619	10	60	1033	110	10	20	40	50	70	30
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	30	1619	10	60	1033	110	10	20	40	50	70	30
RTOR Reduction (vph)	0	0	4	0	0	43	0	37	0	0	0	27
Lane Group Flow (vph)	30	1619	6	60	1033	67	0	33	0	50	70	3
Turn Type	Prot		Perm	Prot		Perm	Split			Split		Perm
Protected Phases	7	4		3	8		2	2		6	6	
Permitted Phases			4			8						6
Actuated Green, G (s)	1.9	45.6	45.6	5.1	48.8	48.8		6.9		9.0	9.0	9.0
Effective Green, g (s)	1.9	45.6	45.6	5.1	48.8	48.8		6.9		9.0	9.0	9.0
Actuated g/C Ratio	0.02	0.55	0.55	0.06	0.59	0.59		0.08		0.11	0.11	0.11
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0		4.0		4.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0		3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	41	1954	874	109	2091	935		268		183	193	172
v/s Ratio Prot	0.02	c0.46		c0.03	c0.29			c0.01		0.03	c0.04	
v/s Ratio Perm			0.00			0.04						0.00
v/c Ratio	0.73	0.83	0.01	0.55	0.49	0.07		0.12		0.27	0.36	0.02
Uniform Delay, d1	40.1	15.3	8.3	37.6	9.8	7.2		35.1		33.8	34.1	32.9
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00	1.00	1.00
Incremental Delay, d2	49.4	3.0	0.0	5.9	0.2	0.0		0.2		0.8	1.2	0.0
Delay (s)	89.5	18.3	8.3	43.5	10.0	7.3		35.3		34.6	35.3	32.9
Level of Service	$\mathbf{F}$	В	A	D	Α	Α		D		C	D	C
Approach Delay (s)		19.5			11.4			35.3			34.6	
Approach LOS		В			В			D			C	
Intersection Summary												
HCM Average Control De	elav		17.4	F	ICM Le	rel of Ser	rvice		В			
HCM Volume to Capacity			0.70						_			
Actuated Cycle Length (s)			82.6	S	Sum of lo	st time (s	s)		20.0			
Intersection Capacity Util			66.4%			el of Serv			C			
Analysis Period (min)			15	_			-		-			
c Critical Lane Group												

135: Pacific	Const	TT	Ο	D 1-	
130: Pacific	COASI	HWV	w.	Beacr	۱

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1,4	ተተጉ		<u> </u>	<b>^</b>	7	7	<u></u> ↑↑	7	ሾሾ	<u></u>	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lane Util. Factor	0.97	0.91		1.00	0.95	1.00	1.00	0.95	1.00	0.97	1.00	1.00
Frt	1.00	1.00		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	5072		1770	3539	1583	1770	3539	1583	3433	1863	1583
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	5072		1770	3539	1583	1770	3539	1583	3433	1863	1583
Volume (vph)	131	1680	30	20	1112	300	20	50	10	500	80	192
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	131	1680	30	20	1112	300	20	50	10	500	80	192
RTOR Reduction (vph)	0	2	0	0	0	176	0	0	9	0	0	0
Lane Group Flow (vph)	131	1708	0	20	1112	124	20	50	1	500	80	192
Turn Type	Prot			Prot		Perm	Prot		Perm	Prot		Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases						8			2			Free
Actuated Green, G (s)	6.4	39.0		2.2	34.8	34.8	2.2	10.4	10.4	16.9	25.1	84.5
Effective Green, g (s)	6.4	39.0		2.2	34.8	34.8	2.2	10.4	10.4	16.9	25.1	84.5
Actuated g/C Ratio	0.08	0.46		0.03	0.41	0.41	0.03	0.12	0.12	0.20	0.30	1.00
Clearance Time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	260	2341		46	1457	652	46	436	195	687	553	1583
v/s Ratio Prot	c0.04	c0.34		0.01	0.31		0.01	0.01		c0.15	c0.04	
v/s Ratio Perm						0.08			0.00			0.12
v/c Ratio	0.50	0.73		0.43	0.76	0.19	0.43	0.11	0.01	0.73	0.14	0.12
Uniform Delay, d1	37.5	18.5		40.5	21.3	15.9	40.5	33.0	32.5	31.6	21.8	0.0
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	1.5	1.2		6.5	2.4	0.1	6.5	0.1	0.0	3.9	0.1	0.2
Delay (s)	39.1	19.6		47.0	23.7	16.0	47.0	33.1	32.5	35.5	21.9	0.2
Level of Service	D	В		D	C	В	D	C	C	D	C	Α
Approach Delay (s)		21.0			22.4			36.5			25.3	
Approach LOS		C			C			D			C	
Intersection Summary												
HCM Average Control De	•		22.6	F	ICM Lev	vel of Ser	vice		C			
HCM Volume to Capacity			0.58									
Actuated Cycle Length (s)			84.5			st time (			8.0			
Intersection Capacity Util	ization		67.4%	I	CU Leve	el of Serv	rice		C			
Analysis Period (min)			15									
c Critical Lane Group												

136: Pacific Coast Hwy & Newland

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ĬŤ	ተተተ	7	ሻ	ተተተ	7		4T+			÷₹	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0			4.0	4.0		4.0			4.0	4.0
Lane Util. Factor	1.00	0.91			0.91	1.00		0.95			1.00	1.00
Frt	1.00	1.00			1.00	0.85		1.00			1.00	0.85
Flt Protected	0.95	1.00			1.00	1.00		0.98			0.95	1.00
Satd. Flow (prot)	1770	5085			5085	1583		3453			1770	1583
Flt Permitted	0.95	1.00			1.00	1.00		0.85			0.74	1.00
Satd. Flow (perm)	1770	5085			5085	1583		3022			1385	1583
Volume (vph)	100	1860	0	0	1192	30	10	10	0	230	0	230
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	100	1860	0	0	1192	30	10	10	0	230	0	230
RTOR Reduction (vph)	0	0	0	0	0	17	0	0	0	0	0	128
Lane Group Flow (vph)	100	1860	0	0	1192	13	0	20	0	0	230	102
Turn Type	Prot	-	Perm	Prot		Perm	Perm			Perm		Perm
Protected Phases	7	4		3	8			2			6	
Permitted Phases			4			8	2			6		6
Actuated Green, G (s)	5.3	33.7			24.4	24.4		14.6			14.6	14.6
Effective Green, g (s)	5.3	33.7			24.4	24.4		14.6			14.6	14.6
Actuated g/C Ratio	0.09	0.60			0.43	0.43		0.26			0.26	0.26
Clearance Time (s)	4.0	4.0			4.0	4.0		4.0			4.0	4.0
Vehicle Extension (s)	3.0	3.0			3.0	3.0		3.0			3.0	3.0
Lane Grp Cap (vph)	167	3044		_	2204	686		784		_	359	411
v/s Ratio Prot	0.06	c0.37			0.23							
v/s Ratio Perm						0.01		0.01			c0.17	0.06
v/c Ratio	0.60	0.61			0.54	0.02		0.03			0.64	0.25
Uniform Delay, d1	24.5	7.2			11.8	9.1		15.5			18.5	16.5
Progression Factor	1.00	1.00			1.00	1.00		1.00			1.00	1.00
Incremental Delay, d2	5.7	0.4			0.3	0.0		0.0			3.9	0.3
Delay (s)	30.2	7.5			12.1	9.1		15.6			22.4	16.8
Level of Service	C	Α			В	Α		В			C	В
Approach Delay (s)		8.7			12.0			15.6			19.6	
Approach LOS		A			В			В			В	
Intersection Summary												
HCM Average Control De	elav		11.2	Ĭ	ICM Le	vel of Se	rvice		В	_		
HCM Volume to Capacity			0.62	•		. 5. 01 50			D			
Actuated Cycle Length (s)			56.3	S	Sum of lo	st time (	s)		8.0			
Intersection Capacity Util	•		68.7%			el of Serv			C			
Analysis Period (min)			15	•	22 23				9			
c Critical Lane Group			10									
continua Lance Group												

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137: Pacific	Coast Hwy	& Magn	olia

137: Pacific Coast Hwy & Magnolia Synchro 6 Report												
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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	<u>ች</u>	ተተተ	7	ሻ	ተተተ	7	*	4		*	<u>-</u>	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91	1.00	0.95	0.95		0.95	0.95	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.95		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	0.96	1.00
Satd. Flow (prot)	1770	5085	1583	1770	5085	1583	1681	1681		1681	1703	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	0.96	1.00
Satd. Flow (perm)	1770	5085	1583	1770	5085	1583	1681	1681		1681	1703	1583
Volume (vph)	100	1960	30	20	1082	50	10	20	10	160	20	170
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	100	1960	30	20	1082	50	10	20	10	160	20	170
RTOR Reduction (vph)	0	0	14	0	0	28	0	9	0	0	0	147
Lane Group Flow (vph)	100	1960	16	20	1082	22	10	21	0	88	92	23
Turn Type	Prot		Perm	Prot		Perm	Split			Split		Perm
Protected Phases	7	4		3	8		2	2		6	6	
Permitted Phases			4			8						6
Actuated Green, G (s)	8.0	37.6	37.6	2.2	31.8	31.8	7.1	7.1		9.6	9.6	9.6
Effective Green, g (s)	8.0	37.6	37.6	2.2	31.8	31.8	7.1	7.1		9.6	9.6	9.6
Actuated g/C Ratio	0.11	0.52	0.52	0.03	0.44	0.44	0.10	0.10		0.13	0.13	0.13
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	195	2637	821	54	2230	694	165	165		223	226	210
v/s Ratio Prot	c0.06	c0.39		0.01	0.21		0.01	c0.01		0.05	c0.05	
v/s Ratio Perm			0.01			0.01						0.01
v/c Ratio	0.51	0.74	0.02	0.37	0.49	0.03	0.06	0.13		0.39	0.41	0.11
Uniform Delay, d1	30.4	13.7	8.5	34.5	14.5	11.6	29.7	29.9		28.8	28.8	27.7
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	2.3	1.2	0.0	4.2	0.2	0.0	0.2	0.3		1.2	1.2	0.2
Delay (s)	32.7	14.8	8.5	38.7	14.7	11.6	29.8	30.2		29.9	30.0	27.9
Level of Service	C	В	Α	D	В	В	C	C		C	C	C
Approach Delay (s)		15.6			15.0			30.1			29.0	
Approach LOS		В			В			C			C	
Intersection Summary									_			
HCM Average Control De	•		16.8	H	ICM Le	vel of Sea	rvice		В			
HCM Volume to Capacity			0.61									
Actuated Cycle Length (s)			72.5			ost time (	,		16.0			
Intersection Capacity Util	ization		62.8%	I	CU Leve	el of Serv	rice		В			

15

Analysis Period (min)

c Critical Lane Group

138: Pacific Coast Hwy & Brookhurst

150: I acine coast iiw	a Dioc	10,0,0				_					neino o	rtop err
	۶	-	$\rightarrow$	•	•	•	1	<b>†</b>		-	<b>↓</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	<b>J</b>	ተተተ	75	<u> ሻ</u>	ተተተ	7	<u> </u>			14.54	<u></u>	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91	1.00	1.00	1.00		0.97	1.00	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.92		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	1770	5085	1583	1770	5085	1583	1770	1723		3433	1863	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	1770	5085	1583	1770	5085	1583	1770	1723		3433	1863	1583
Volume (vph)	170	2020	10	10	972	210	10	10	10	670	10	160
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	170	2020	10	10	972	210	10	10	10	670	10	160
RTOR Reduction (vph)	0	0	5	0	0	80	0	9	0	0	0	120
Lane Group Flow (vph)	170	2020	5	10	972	130	10	11	0	670	10	40
Turn Type	Prot		Perm	Prot		pm+ov	Split		-	Split		Perm
Protected Phases	7	4		3	8	6	2	2		6	6	
Permitted Phases			4	_	-	8						6
Actuated Green, G (s)	11.0	42.6	42.6	0.6	32.2	54.2	6.6	6.6		22.0	22.0	22.0
Effective Green, g (s)	11.0	42.6	42.6	0.6	32.2	54.2	6.6	6.6		22.0	22.0	22.0
Actuated g/C Ratio	0.13	0.49	0.49	0.01	0.37	0.62	0.08	0.08		0.25	0.25	0.25
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	222	2467	768	12	1865	977	133	130		860	467	397
v/s Ratio Prot	c0.10	c0.40	,	0.01	0.19	0.03	0.01	c0.01		c0.20	0.01	
v/s Ratio Perm			0.00	0.02		0.05					0.02	0.03
v/c Ratio	0.77	0.82	0.01	0.83	0.52	0.13	0.08	0.08		0.78	0.02	0.10
Uniform Delay, d1	37.2	19.3	11.7	43.6	21.8	7.0	37.8	37.8		30.6	24.8	25.3
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	14.5	2.2	0.0	168.3	0.3	0.1	0.2	0.3		4.5	0.0	0.1
Delay (s)	51.7	21.5	11.7	211.9	22.0	7.1	38.0	38.1		35.1	24.8	25.4
Level of Service	D	C	В	F	C	A	D	D		D	С	С
Approach Delay (s)		23.8			21.0			38.0			33.2	
Approach LOS		C			C			D			C	
Intersection Summary												
HCM Average Control D	elay		25.0	ŀ	ICM Lev	vel of Se	rvice		С			
HCM Volume to Capacity	•		0.72									
Actuated Cycle Length (s			87.8	S	Sum of lo	st time (	s)		12.0			
Intersection Capacity Util			78.1%			el of Serv	,		D			
Analysis Period (min)			15									
c Critical Lane Group												

Appendix F, Traffic Impact Analysis page  $^81^3$  of 1 City of Huntington Beach - DTSP Update

		ALL-VVA	3107 0	ON I ROL A				
General Information				Site Informa	ation			
Analyst	SA			Intersection		Lake S	treet/6th Street	
Agency/Co.				Jurisdiction Analysis Year		2020 8	ase Case+Proje	ot Alt 2
Date Performed Analysis Time Period	3/31/200 AM Peak			Arialysis real		2030 B	ase Case+Fi0je	CLTAIL Z
	ANI Peak							
Project ID				Namb (Careth Chr	anti Indra Otrant			
East/West Street: 6th Street	1011 01			North/South Str	eet: Lake Street			
Volume Adjustments an	d Site Chara				_	10/0	ath a mad	
Approach  Movement		<u> </u>	astbound T	R	L	vve	stbound T	R
Volume (veh/h)	78		30	73	0		90	30
%Thrus Left Lane	<del></del>				<del>-</del>			
Approach		N	orthbound		<del></del>	Sou	thbound	
Movement	L		T	R	L		T	R
Volume (veh/h)	22		47	0	60		118	70
%Thrus Left Lane								
	Eastb	ound	Wes	stbound	North	bound	Sou	thbound
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LTR		LTR		LTR		LTR	
PHF	1.00		1.00		1.00		1.00	
Flow Rate (veh/h)	181		120		69		248	
% Heavy Vehicles	0		0		0		0	
No. Lanes	1			1	1			1
Geometry Group	1			1	1	!		1
Duration, T				0.	25			
Saturation Headway Adj	ustment Wo	rksheet						
Prop. Left-Turns	0.4	_	0.0		0.3		0.2	
Prop. Right-Turns	0.4		0.3		0.0		0.3	
Prop. Heavy Vehicle	0.0		0.0		0.0		0.0	
hLT-adj	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
hRT-adj	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
hHV-adj	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
hadj, computed	-0.2		-0.2		0.1		-0.1	
Departure Headway and		<u> </u>	1 0.2		<u> </u>		<u> </u>	<del>-</del>
hd, initial value (s)	3.20		3.20	T -	3.20	Γ	3.20	T -
x, initial	0.16	_	0.11	+	0.06		0.22	<del>                                     </del>
hd, final value (s)	4.69		4.78	+	5.04		4.62	
x, final value	0.24		0.16	+	0.10		0.32	
Move-up time, m (s)	2.	0		2.0	2.	0		2.0
Service Time, t <sub>s</sub> (s)	2.7	_	2.8	T -	3.0		2.6	
Capacity and Level of S								
Capacity and Ecremon C	Eastb	ound —	We	stbound	North	bound	Soil	ithbound
	L1	L2	L1	L2	L1	L2	L1	L2
Capacity (veh/h)	431			-		- 1,2	498	
	9.13		370	+	319		9.76	
Delay (s/veh)			8.68	+	8.57 A	-		
LOS	A	40	A	0.60		<u> </u>	A	
Approach: Delay (s/veh)		.13	+ - 8	2.68		57	+	
LOS		A		<u>A</u>		4		<u>A</u>
Intersection Delay (s/veh)		_			.23			
Intersection LOS				_	<u> </u>			

		ALL-WA	Y STOP C	ONTROL A	ANALYSIS			
General Information		_		Site Inform	ation			
Analyst	SA		_	Intersection		Lake S	treet/Orange Ave	nue
Agency/Co.				Jurisdiction				
Date Performed	3/31/20			Analysis Year		2030 E	Base Case+Projec	xt+Alt 2
Analysis Time Period	AM Pea	9K		<u> </u>				
Project ID								
East/West Street: Orange Aver				North/South Str	reet: Lake Street			
Volume Adjustments a	nd Site Char							
Approach Movement			Eastbound T		<del>-                                    </del>	<u>We</u>	stbound	
Volume (veh/h)	30 30	<del>-                                     </del>	319	41	52		278	42
%Thrus Left Lane		<del>′ -</del>   -	319		- 52	_	270	72
			Northbound	<u>_</u>		Sol	ithbound	
Approach Movement	<del> </del>	<del></del>	T I	R	<del>                                     </del>	1	T I	R
Volume (veh/h)	60	)	58	18	21		150	20
%Thrus Left Lane				-				
	Eas	tbound	Wes	tbound	North	bound	Sout	hbound
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LTR		LTR		LTR		LTR	
PHF	1.00		1.00		1.00		1.00	
Flow Rate (veh/h)	390		372		136	_	191	
% Heavy Vehicles	0		0		0		0	
No. Lanes		1		1	1	<u> </u>	<del>                                     </del>	1
Geometry Group		1		1	1	1	<u> </u>	1
Duration, T					.25			
Saturation Headway A	djustment W	orksheet						
Prop. Left-Turns	0.1		0.1		0.4		0.1	
Prop. Right-Turns	0.1		0.1		0.1		0.1	
Prop. Heavy Vehicle	0.0		0.0		0.0		0.0	_
hLT-adj	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
hRT-adj	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
hHV-adj	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
hadj, computed	-0.0	<del>  './</del>	-0.0	1.7	0.0	1.7	-0.0	1.7
Departure Headway an		<u></u>	1 -0.0		0.0		-0.0	
	3.20	T	3.20	T	3.20	<del></del>	3.20	<del></del>
hd, initial value (s) x, initial	0.35	<del> </del>	0.33	_	0.12		0.17	<del>  _</del>
hd, final value (s)	5.61	<del>                                     </del>	5.65		6.56		6.36	+
x, final value	0.61	+-	0.58		0.25	-	0.34	_
Move-up time, m (s)		2.0		2.0		.0		2.0
Service Time, t <sub>s</sub> (s)	3.6	T T	3.6	<u> </u>	4.6	<u> </u>	4.4	
Capacity and Level of			0.0		4.0		7,7	
Capacity and Level Of		tbound	N/os	stbound	North	bound	South	thbound
	L1	L2	L1	L2	L1	L2	L1	L2
Congaity (yah/h)	613	L2					441	-
Capacity (veh/h)		<del> </del>	606		386	-	+	
Delay (s/veh)	16.93 C		16.26 C		11.71 B		12.56	
		1		2.06		71	B	<u></u>
Approach: Delay (s/veh)  LOS		<u>16.93</u>		5.26 C		. <u>71</u>		2.56 B
		С						<u>.                                    </u>
Intersection Delay (s/veh) Intersection LOS	+				C			
Intersection FOS					0			

108: Atlanta & Beach

100. Atlanta & Deach						_		_				report
	•	<b>→</b>	•	•	<b>←</b>	•	1	<b>†</b>	<b>/</b>	<b>&gt;</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	``	<b>^</b>	7	ሻ	<b>^</b>	77	<u> </u>	ተተጐ			<b>↑</b> ↑↑	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.91		1.00	0.91	
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.98		1.00	0.96	
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	3539	1583	1770	3539	1583	1770	4973		1770	4890	
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	3539	1583	1770	3539	1583	1770	4973		1770	4890	
Volume (vph)	112	303	50	65	495	180	20	436	75	190	647	223
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	112	303	50	65	495	180	20	436	75	190	647	223
RTOR Reduction (vph)	0	0	35	0	0	135	0	19	0	0	48	0
Lane Group Flow (vph)	112	303	15	65	495	45	20	492	0	190	822	0
Turn Type	Prot		Perm	Prot		Perm	Prot			Prot		
Protected Phases	7	4	1 01111	3	8	1 01111	5	2		1	6	
Permitted Phases	,	•	4	2	Ü	8		_		•	Ü	
Actuated Green, G (s)	7.5	19.2	19.2	4.6	16.3	16.3	1.1	15.7		9.7	24.3	
Effective Green, g (s)	7.5	19.2	19.2	4.6	16.3	16.3	1.1	15.7		9.7	24.3	
Actuated g/C Ratio	0.12	0.29	0.29	0.07	0.25	0.25	0.02	0.24		0.15	0.37	
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	204	1042	466	125	885	396	30	1197	-	263	1823	
v/s Ratio Prot	c0.06	c0.09		0.04	c0.14		0.01	0.10		c0.11	c0.17	
v/s Ratio Perm		••••	0.01			0.03						
v/c Ratio	0.55	0.29	0.03	0.52	0.56	0.11	0.67	0.41		0.72	0.45	
Uniform Delay, d1	27.3	17.7	16.4	29.2	21.3	18.9	31.9	20.9		26.5	15.4	
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	3.0	0.2	0.0	3.9	0.8	0.1	44.1	0.2		9.4	0.2	
Delay (s)	30.3	17.9	16.4	33.1	22.1	19.0	76.0	21.1		35.9	15.6	
Level of Service	С	В	В	С	С	В	E	С		D	В	
Approach Delay (s)		20.7			22.3			23.2			19.2	
Approach LOS		C			C			C			В	
Intersection Summary												
HCM Average Control D	elay		21.0	ŀ	ICM Le	vel of Se	rvice		C			
HCM Volume to Capacity	y ratio		0.56									
Actuated Cycle Length (s	)		65.2	S	Sum of lo	ost time (	s)		16.0			
Intersection Capacity Util	ization		54.0%	I	CU Leve	el of Serv	rice		Α			
Analysis Period (min)			15									
c Critical Lane Group												

## 163: Pacific View & Beach

	٠	•	4	†	<b>↓</b>	4			
Movement	EBL	EBR	NBL	NBT	SBT	SBR			
Lane Configurations	7	7	ň	ተተተ	ተተ <sub>ጉ</sub>		_		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900			
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0				
Lane Util. Factor	1.00	1.00	1.00	0.91	0.91				
Frt	1.00	0.85	1.00	1.00	0.97				
Flt Protected	0.95	1.00	0.95	1.00	1.00				
Satd. Flow (prot)	1770	1583	1770	5085	4955				
Flt Permitted	0.95	1.00	0.95	1.00	1.00				
Satd. Flow (perm)	1770	1583	1770	5085	4955				 
Volume (vph)	50	42	70	399	729	150			
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00			
Adj. Flow (vph)	50	42	70	399	729	150			
RTOR Reduction (vph)	0	38	0	0	16	0			
Lane Group Flow (vph)	50	4	70	399	863	0			
Turn Type		Perm	Prot						
Protected Phases	4		5	2	6				
Permitted Phases		4							
Actuated Green, G (s)	6.4	6.4	4.5	45.5	37.0				
Effective Green, g (s)	6.4	6.4	4.5	45.5	37.0				
Actuated g/C Ratio	0.11	0.11	0.08	0.76	0.62				
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0				
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0				 
Lane Grp Cap (vph)	189	169	133	3863	3061				
v/s Ratio Prot	c0.03		c0.04	0.08	c0.17				
v/s Ratio Perm		0.00							
v/c Ratio	0.26	0.03	0.53	0.10	0.28				
Uniform Delay, d1	24.6	24.0	26.7	1.9	5.3				
Progression Factor	1.00	1.00	1.00	1.00	1.00				
Incremental Delay, d2	0.8	0.1	3.7	0.0	0.1				
Delay (s)	25.3	24.0	30.4	1.9	5.4				
Level of Service	C	C	C	Α	Α				
Approach Delay (s)	24.7			6.1	5.4				
Approach LOS	C			Α	Α				
Intersection Summary								_	
HCM Average Control Do			6.8	H	ICM Lev	el of Service		Α	
HCM Volume to Capacity			0.30						
Actuated Cycle Length (s)			59.9			st time (s)		12.0	
Intersection Capacity Util	ization		34.6%	I	CU Leve	l of Service		Α	
Analysis Period (min)			15						
c Critical Lane Group									

Appendix F, Traffic Impact Analysis - page 817 City of Huntington Beach - DTSP Update Program Environmental Impact Report

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Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	77.75	<b>†</b>		۳	<b>^</b>	7	7			ሻሻ		77
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0
Lane Util. Factor	0.97	0.95		1.00	0.95	1.00	1.00	1.00		0.97	1.00	0.88
Frt	1.00	1.00		1.00	1.00	0.85	1.00	0.96		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3433	3527		1770	3539	1583	1770	1788		3433	1863	2787
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3433	3527		1770	3539	1583	1770	1788		3433	1863	2787
Volume (vph)	410	1284	30	20	1616	339	30	110	40	359	70	830
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	410	1284	30	20	1616	339	30	110	40	359	70	830
RTOR Reduction (vph)	0	1	0	0	0	81	0	11	0	0	0	262
Lane Group Flow (vph)	410	1313	0	20	1616	258	30	139	0	359	70	568
Turn Type	Prot			Prot		Perm	Prot			Prot		Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases						8						6
Actuated Green, G (s)	15.1	70.5		1.9	57.3	57.3	2.3	16.3		14.4	28.4	28.4
Effective Green, g (s)	15.1	70.5		1.9	57.3	57.3	2.3	16.3		14.4	28.4	28.4
Actuated g/C Ratio	0.13	0.59		0.02	0.48	0.48	0.02	0.14		0.12	0.24	0.24
Clearance Time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	435	2088		28	1703	762	34	245		415	444	665
v/s Ratio Prot	c0.12	0.37		0.01	c0.46		0.02	0.08		c0.10	0.04	
v/s Ratio Perm						0.16						c0.20
v/c Ratio	0.94	0.63		0.71	0.95	0.34	0.88	0.57		0.87	0.16	0.85
Uniform Delay, d1	51.6	15.8		58.3	29.5	19.1	58.3	48.1		51.4	35.9	43.4
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	28.9	0.6		60.5	11.7	0.3	106.5	3.0		16.9	0.2	10.4
Delay (s)	80.5	16.4		118.9	41.2	19.4	164.8	51.1		68.3	36.1	53.8
Level of Service	F	В		F	D	В	F	D		E	D	D
Approach Delay (s)		31.6			38.3			70.0			56.9	
Approach LOS		C			D			E			E	
Intersection Summary												
HCM Average Control D	•		41.7	F	HCM Le	vel of Se	rvice		D			
HCM Volume to Capacity			0.91									
Actuated Cycle Length (s			119.1			ost time (			12.0			
Intersection Capacity Util	lization		88.2%	I	CU Leve	el of Serv	rice		E			
Analysis Period (min)			15									
c Critical Lane Group												

	•	-	<b>←</b>	*	-	4	
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	ሻ	<b>^</b>	<b>ት</b> ኁ		ሻሻ	7	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	0.95	0.95		0.97	1.00	
Frt	1.00	1.00	0.99		1.00	0.85	
Flt Protected	0.95	1.00	1.00		0.95	1.00	
Satd. Flow (prot)	1770	3539	3510		3433	1583	
Flt Permitted	0.95	1.00	1.00		0.95	1.00	
Satd. Flow (perm)	1770	3539	3510		3433	1583	
Volume (vph)	340	1433	1555	89	59	410	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	
Adj. Flow (vph)	340	1433	1555	89	59	410	
RTOR Reduction (vph)	0	0	3	0	0	12	
Lane Group Flow (vph)	340	1433	1641	0	59	398	
Turn Type	Prot					pm+ov	
Protected Phases	7	4	8		6	7	
Permitted Phases						6	
Actuated Green, G (s)	21.8	74.8	49.0		7.4	29.2	
Effective Green, g (s)	21.8	74.8	49.0		7.4	29.2	
Actuated g/C Ratio	0.24	0.83	0.54		0.08	0.32	
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0	
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	428	2935	1907		282	583	
v/s Ratio Prot	c0.19	0.40	c0.47		0.02	c0.16	
v/s Ratio Perm						0.09	
v/c Ratio	0.79	0.49	0.86		0.21	0.68	
Uniform Delay, d1	32.1	2.2	17.7		38.7	26.5	
Progression Factor	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	9.8	0.1	4.2		0.4	3.3	
Delay (s)	41.9	2.3	21.9		39.0	29.8	
Level of Service	D	A	C		D	C	
Approach Delay (s)		9.9	21.9		30.9		
Approach LOS		Α	C		С		
Intersection Summary							
HCM Average Control De	elav		17.5	T	ICM I es	vel of Servi	ice B
HCM Volume to Capacity			0.84	1.	ICIVI LEV	OI OI GOIV	D D
Actuated Cycle Length (s)			90.2	0	um of lo	st time (s)	12.0
Intersection Capacity Util			78.0%			el of Servic	
Analysis Period (min)	ızanon		15	1	CO LEVE	Y OF PETAIC	D D
c Critical Lane Group			13				
Crinical Lane Gloup							

120. Facilie Coast Hwy	a Gold	enwest					Syncino o Repor
	•	<b>→</b>	+	1	<b>\</b>	1	
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	7	<b>*</b>	<b>^</b>	7	, J	7	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor	1.00	0.95	0.95	1.00	1.00	1.00	
Frt	1.00	1.00	1.00	0.85	1.00	0.85	
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (prot)	1770	3539	3539	1583	1770	1583	
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (perm)	1770	3539	3539	1583	1770	1583	
Volume (vph)	550	1472	1504	273	252	480	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	
Adj. Flow (vph)	550	1472	1504	273	252	480	
RTOR Reduction (vph)	0	0	0	114	0	396	
Lane Group Flow (vph)	550	1472	1504	159	252	84	
Turn Type	Prot		1001	Perm		Perm	
Protected Phases	7	4	8	1 (1111	6	CIII	
Permitted Phases	,	7	0	8	U	6	
Actuated Green, G (s)	38.0	94.0	52.0	52.0	18.0	18.0	
Effective Green, g (s)	38.0	94.0	52.0	52.0	18.0	18.0	
Actuated g/C Ratio	0.32	0.78	0.43	0.43	0.15	0.15	
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	
	561	2772	1534	686	266	237	
Lane Grp Cap (vph) v/s Ratio Prot				080	c0.14	231	
v/s Ratio Prot v/s Ratio Perm	c0.31	0.42	c0.42	0.10	CU.14	0.05	
	0.08	0.52	0.98		0.05	0.03	
v/c Ratio	0.98	0.53		0.23	0.95	0.33 45.8	
Uniform Delay, d1	40.6	4.8	33.5	21.4	50.5		
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2	32.9	0.2	18.4	0.2	40.6	0.9	
Delay (s)	73.5	5.0	51.9	21.6	91.1	46.7	
Level of Service	E	A	D	С	F	D	
Approach Delay (s)		23.6	47.3		62.0		
Approach LOS		С	D		E		
Intersection Summary							
HCM Average Control D	-		39.1	H	ICM Lev	el of Servic	e D
HCM Volume to Capacity			0.98				
Actuated Cycle Length (s	,		120.0			st time (s)	12.0
Intersection Capacity Util	lization		96.0%	Ie	CU Leve	el of Service	F
Analysis Period (min)			15				
c Critical Lane Group							

127. I dellie Coast IIW)	y CC 17th	<u> </u>					
	۶	-	<b>←</b>	•	<b>&gt;</b>	1	
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	ሻ	<b>^</b>	<b>†</b>	7	ሻ	*	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor	1.00	0.95	0.95	1.00	1.00	1.00	
Frt	1.00	1.00	1.00	0.85	1.00	0.85	
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (prot)	1770	3539	3539	1583	1770	1583	
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (perm)	1770	3539	3539	1583	1770	1583	
Volume (vph)	340	1403	1736	60	110	100	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	
Adj. Flow (vph)	340	1403	1736	60	110	100	
RTOR Reduction (vph)	0	0	0	21	0	89	
Lane Group Flow (vph)	340	1403	1736	39	110	11	
Turn Type	Prot			Perm		Perm	
Protected Phases	7	4	8		6		
Permitted Phases				8		6	
Actuated Green, G (s)	22.9	81.8	54.9	54.9	11.4	11.4	
Effective Green, g (s)	22.9	81.8	54.9	54.9	11.4	11.4	
Actuated g/C Ratio	0.23	0.81	0.54	0.54	0.11	0.11	
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	401	2861	1920	859	199	178	
v/s Ratio Prot	c0.19	0.40	c0.49		c0.06		
v/s Ratio Perm				0.02		0.01	
v/c Ratio	0.85	0.49	0.90	0.05	0.55	0.06	
Uniform Delay, d1	37.5	3.1	20.8	10.9	42.5	40.1	
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2	15.2	0.1	6.5	0.0	3.3	0.2	
Delay (s)	52.7	3.2	27.2	10.9	45.8	40.3	
Level of Service	D	Α	C	В	D	D	
Approach Delay (s)		12.9	26.7		43.2		
Approach LOS		В	C		D		
Intersection Summary							
HCM Average Control D	elav		21.2		ICM Lev	el of Servic	ce C
HCM Volume to Capacity	-		0.84	1.		11 01 001 / 10	
Actuated Cycle Length (s			101.2	S	um of lo	st time (s)	12.0
Intersection Capacity Util	,		82.9%			of Service	
Analysis Period (min)	LLMUIOII		15	1,	CO LOVO	01 001 7100	
c Critical Lane Group			13				
c Stitioni Enile Stoup							

## 2030 Alternative 2 With Project - PM Peak Hour

165: Pacific Coast Hwy & 9th St

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Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	7	<b>^</b>	<b>^</b>	7	ሻ	7	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor	1.00	0.95	0.95	1.00	1.00	1.00	
Frt	1.00	1.00	1.00	0.85	1.00	0.85	
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (prot)	1770	3539	3539	1583	1770	1583	
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (perm)	1770	3539	3539	1583	1770	1583	
Volume (vph)	20	1521	1838	30	50	20	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	
Adj. Flow (vph)	20	1521	1838	30	50	20	
RTOR Reduction (vph)	0	0	0	11	0	17	
Lane Group Flow (vph)	20	1521	1838	19	50	3	
Turn Type	Prot			Perm		Perm	
Protected Phases	7	4	8		6		
Permitted Phases				8		6	
Actuated Green, G (s)	2.0	46.0	40.0	40.0	8.3	8.3	
Effective Green, g (s)	2.0	46.0	40.0	40.0	8.3	8.3	
Actuated g/C Ratio	0.03	0.74	0.64	0.64	0.13	0.13	
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	57	2613	2272	1016	236	211	
v/s Ratio Prot	0.01	c0.43	c0.52		c0.03		
v/s Ratio Perm				0.01		0.00	
v/c Ratio	0.35	0.58	0.81	0.02	0.21	0.01	
Uniform Delay, d1	29.5	3.7	8.3	4.0	24.1	23.4	
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2	3.7	0.3	2.2	0.0	0.5	0.0	
Delay (s)	33.2	4.1	10.5	4.0	24.5	23.5	
Level of Service	C	Α	В	Α	С	С	
Approach Delay (s)		4.5	10.4		24.2		
Approach LOS		A	В		C		
Intersection Summary							
HCM Average Control De	lay		8.1	Н	ICM Lev	el of Service	e A
HCM Volume to Capacity			0.72				
Actuated Cycle Length (s)			62.3	S	um of lo	st time (s)	12.0
Intersection Capacity Utili			60.8%			l of Service	В
Analysis Period (min) c Critical Lane Group			15				

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>ተ</b> ቀኩ		ሻ	<b>ተ</b> ተጉ			4	_	ሻ	<u></u>	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	
Lane Util. Factor	1.00	0.91		1.00	0.91			1.00		1.00	1.00	
Frt	1.00	1.00		1.00	0.99			0.93		1.00	0.87	
Flt Protected	0.95	1.00		0.95	1.00			0.98		0.95	1.00	
Satd. Flow (prot)	1770	5068		1770	5035			1701		1770	1621	
Flt Permitted	0.95	1.00		0.95	1.00			0.40		0.51	1.00	
Satd. Flow (perm)	1770	5068		1770	5035			683		954	1621	
Volume (vph)	326	1330	30	40	1661	117	40	20	70	107	30	191
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	326	1330	30	40	1661	117	40	20	70	107	30	191
RTOR Reduction (vph)	0	2	0	0	7	0	0	35	0	0	165	0
Lane Group Flow (vph)	326	1358	0	40	1771	0	0	95	0	107	56	0
Turn Type	Prot			Prot			Perm			Perm		
Protected Phases	7	4		3	8		1 01111	2		1 01111	6	
Permitted Phases	,	•			Ü		2	_		6	Ü	
Actuated Green, G (s)	21.0	56.3		5.5	40.8		_	16.2		16.2	16.2	
Effective Green, g (s)	21.0	56.3		5.5	40.8			16.2		16.2	16.2	
Actuated g/C Ratio	0.18	0.47		0.05	0.34			0.13		0.13	0.13	
Clearance Time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	
Vehicle Extension (s)	3.0	3.0		3.0	3.0			3.0		3.0	3.0	
Lane Grp Cap (vph)	310	2378		81	1712			92		129	219	
v/s Ratio Prot	c0.18	0.27		0.02	c0.35					~	0.03	
v/s Ratio Perm	00.10	0.27		0.02	00.55			c0.14		0.11	0.05	
v/c Ratio	1.05	0.57		0.49	1.03			1.03		0.83	0.25	
Uniform Delay, d1	49.5	23.1		55.9	39.6			51.9		50.6	46.5	
Progression Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
Incremental Delay, d2	65.3	0.3		4.7	31.3			101.5		33.6	0.6	
Delay (s)	114.8	23.4		60.6	70.9			153.4		84.2	47.1	
Level of Service	F	C		E	E			F		F	D	
Approach Delay (s)	•	41.1		-	70.6			153.4		•	59.2	
Approach LOS		D			Е			F			E	
Intersection Summary												
HCM Average Control D	elay		59.8	F	ICM Le	vel of Se	rvice		E			
HCM Volume to Capacity			1.04									
Actuated Cycle Length (s			120.0	S	Sum of lo	ost time (	s)		42.0			
Intersection Capacity Util			87.0%	I	CU Leve	el of Serv	rice		E			
Analysis Period (min)			15									
c Critical Lane Group												

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	•	-	F	<b>←</b>	•	-	4		
Movement	EBL	EBT	WBU	WBT	WBR	SBL	SBR		
Lane Configurations	ሻ	ተተተ	Ð	ተተተ	7	ሻ	7		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900		
Total Lost time (s)		4.0	4.0	4.0					
Lane Util. Factor		0.91	1.00	0.91					
Frt		1.00	1.00	1.00					
Flt Protected		1.00	0.95	1.00					
Satd. Flow (prot)		5085	1770	5085					
Flt Permitted		1.00	0.95	1.00					
Satd. Flow (perm)		5085	1770	5085					
Volume (vph)	0	1283	40	1623	0	0	0		
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj. Flow (vph)	0	1283	40	1623	0	0	0		
RTOR Reduction (vph)	0	0	0	0	0	0	0		
Lane Group Flow (vph)	0	1283	40	1623	0	0	0		
Turn Type	Prot		Prot		Perm		Perm		
Protected Phases	7	4	3	8	1	6			
Permitted Phases	,	•		J	8	· ·	6		
Actuated Green, G (s)		29.8	4.7	38.5	Ü		Ū		
Effective Green, g (s)		29.8	4.7	38.5					
Actuated g/C Ratio		0.36	0.06	0.47					
Clearance Time (s)		4.0	4.0	4.0					
Vehicle Extension (s)		3.0	3.0	3.0					
Lane Grp Cap (vph)		1837	101	2373					
v/s Ratio Prot		0.25	0.02	c0.32					
v/s Ratio Perm		0.23	0.02	00.52					
v/c Ratio		0.70	0.40	0.68					
Uniform Delay, d1		22.5	37.5	17.2					
Progression Factor		1.00	1.00	1.00					
Incremental Delay, d2		1.2	2.5	0.8					
Delay (s)		23.7	40.1	18.1					
Level of Service		23.7 C	D	В					
Approach Delay (s)		23.7	D	18.6		0.0			
Approach LOS		23.7 C		В		Α			
		C		D		71			
Intersection Summary						_			
HCM Average Control De	-		20.8	I	ICM Lev	el of Se	rvice	C	
HCM Volume to Capacity			0.68						
Actuated Cycle Length (s)			82.5	5	Sum of lo	st time (	s)	44.0	
Intersection Capacity Utili	zation		36.6%	I	CU Leve	l of Serv	rice	A	
1 1 1 D 1 1 / 1 \			15						
Analysis Period (min) c Critical Lane Group									

133: Pacific Coast Hwy & 1st St

Sync	hro 6	Re	port
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	٦	<b>→</b>	•	•	+	4	1	<b>†</b>	<i>&gt;</i>	-	<b>↓</b>	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	ተተ <sub>ጉ</sub>		7	ተተ <sub>ጉ</sub>		ሻ	4	7	ሻ	सी	77
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Lane Util. Factor	1.00	0.91		1.00	0.91		0.95	0.95	1.00	0.95	0.95	0.88
Frt	1.00	1.00		1.00	0.97		1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00		0.95	0.99	1.00	0.95	0.96	1.00
Satd. Flow (prot)	1770	5072		1770	4916		1681	1745	1583	1681	1695	2787
Flt Permitted	0.95	1.00		0.95	1.00		0.95	0.99	1.00	0.95	0.96	1.00
Satd. Flow (perm)	1770	5072		1770	4916		1681	1745	1583	1681	1695	2787
Volume (vph)	376	1102	20	60	1608	458	70	40	70	471	30	277
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	376	1102	20	60	1608	458	70	40	70	471	30	277
RTOR Reduction (vph)	0	1	0	0	42	0	0	0	64	0	0	192
Lane Group Flow (vph)	376	1121	0	60	2024	0	54	56	6	244	257	85
Turn Type	Prot			Prot			Split		Perm	Split		Perm
Protected Phases	7	4		3	8		2	2		6	6	
Permitted Phases									2			6
Actuated Green, G (s)	12.0	36.1		4.8	28.9		8.9	8.9	8.9	16.0	16.0	16.0
Effective Green, g (s)	12.0	36.1		4.8	28.9		8.9	8.9	8.9	16.0	16.0	16.0
Actuated g/C Ratio	0.11	0.32		0.04	0.26		0.08	0.08	0.08	0.14	0.14	0.14
Clearance Time (s)	4.0	4.0		4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	190	1638		76	1271		134	139	126	241	243	399
v/s Ratio Prot	c0.21	0.22		0.03	c0.41		c0.03	0.03		0.15	c0.15	
v/s Ratio Perm									0.00			0.03
v/c Ratio	1.98	0.68		0.79	1.59		0.40	0.40	0.04	1.01	1.06	0.21
Uniform Delay, d1	49.9	32.9		53.0	41.4		48.9	48.9	47.5	47.9	47.9	42.3
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	458.9	1.2		40.6	270.5		2.0	1.9	0.1	61.2	73.7	0.3
Delay (s)	508.8	34.1		93.6	312.0		50.9	50.8	47.7	109.1	121.6	42.6
Level of Service	F	C		F	F		D	D	D	F	F	D
Approach Delay (s)		153.2			305.8			49.6			89.6	
Approach LOS		F			F			D			F	
Intersection Summary												
HCM Average Control De	-		209.2	F	ICM Lev	vel of Se	rvice		F			
HCM Volume to Capacity			1.37									
Actuated Cycle Length (s)			111.8			st time (			46.0			
Intersection Capacity Util	ization		92.6%	I	CU Leve	el of Serv	vice		F			
Analysis Period (min)			15									
c Critical Lane Group												

134: Pacific Coast Hwy & Huntington

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	۶	<b>→</b>	$\rightarrow$	•	<b>←</b>	•	4	<b>†</b>	<b>/</b>	<b>\</b>	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>^</b>	7	J.	<b>^</b>	7		414			4	77
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0		4.0		4.0	4.0	4.0
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	1.00		0.95		0.95	0.95	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85		0.93		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00		0.99		0.95	1.00	1.00
Satd. Flow (prot)	1770	3539	1583	1770	3539	1583		3253		1681	1770	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00		0.99		0.95	1.00	1.00
Satd. Flow (perm)	1770	3539	1583	1770	3539	1583		3253		1681	1770	1583
Volume (vph)	60	1339	10	40	1833	80	40	60	90	30	40	50
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	60	1339	10	40	1833	80	40	60	90	30	40	50
RTOR Reduction (vph)	0	0	4	0	0	17	0	82	0	0	0	46
Lane Group Flow (vph)	60	1339	6	40	1833	63	0	108	0	30	40	4
Turn Type	Prot		Perm	Prot		Perm	Split			Split		Perm
Protected Phases	7	4		3	8		2	2		6	6	
Permitted Phases			4			8						6
Actuated Green, G (s)	3.7	55.2	55.2	3.6	55.1	55.1		8.6		7.9	7.9	7.9
Effective Green, g (s)	3.7	55.2	55.2	3.6	55.1	55.1		8.6		7.9	7.9	7.9
Actuated g/C Ratio	0.04	0.60	0.60	0.04	0.60	0.60		0.09		0.09	0.09	0.09
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0		4.0		4.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0		3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	72	2140	957	70	2136	955		306		145	153	137
v/s Ratio Prot	c0.03	0.38		0.02	c0.52			c0.03		0.02	c0.02	
v/s Ratio Perm			0.00			0.04						0.00
v/c Ratio	0.83	0.63	0.01	0.57	0.86	0.07		0.35		0.21	0.26	0.03
Uniform Delay, d1	43.5	11.5	7.2	43.1	14.9	7.5		38.7		38.8	39.0	38.2
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00	1.00	1.00
Incremental Delay, d2	53.2	0.6	0.0	10.8	3.7	0.0		0.7		0.7	0.9	0.1
Delay (s)	96.7	12.1	7.2	53.9	18.5	7.5		39.5		39.5	39.9	38.3
Level of Service	F	В	Α	D	В	Α		D		D	D	D
Approach Delay (s)		15.6			18.8			39.5			39.1	
Approach LOS		В			В			D			D	
Intersection Summary										_		
HCM Average Control De	•		19.3	F	ICM Lev	vel of Se	rvice		В			
HCM Volume to Capacity			0.74									
Actuated Cycle Length (s)			91.3			st time (			16.0			
Intersection Capacity Util	ization		69.7%	I	CU Leve	el of Serv	rice		C			
Analysis Period (min)			15									
<ul> <li>c Critical Lane Group</li> </ul>												

135: Pacific Coast Hwy & Beach

				-								
	•	-	•	•	•	*	1	<b>†</b>	-	-	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻሻ	<b>↑</b> ↑↑		ሻ	<b>^</b>	7	7	<b>^</b>	7	14.54	<b>†</b>	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lane Util. Factor	0.97	0.91		1.00	0.95	1.00	1.00	0.95	1.00	0.97	1.00	1.00
Frt	1.00	1.00		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	5068		1770	3539	1583	1770	3539	1583	3433	1863	1583
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	5068		1770	3539	1583	1770	3539	1583	3433	1863	1583
Volume (vph)	235	1303	30	40	1609	850	20	50	30	340	50	144
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	235	1303	30	40	1609	850	20	50	30	340	50	144
RTOR Reduction (vph)	0	2	0	0	0	318	0	0	27	0	0	0
Lane Group Flow (vph)	235	1331	0	40	1609	532	20	50	3	340	50	144
Turn Type	Prot			Prot		Perm	Prot		Perm	Prot		Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases						8			2			Free
Actuated Green, G (s)	10.4	63.4		3.9	56.9	56.9	1.9	9.6	9.6	13.2	20.9	106.1
Effective Green, g (s)	10.4	63.4		3.9	56.9	56.9	1.9	9.6	9.6	13.2	20.9	106.1
Actuated g/C Ratio	0.10	0.60		0.04	0.54	0.54	0.02	0.09	0.09	0.12	0.20	1.00
Clearance Time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	337	3028	_	65	1898	849	32	320	143	427	367	1583
v/s Ratio Prot	c0.07	0.26		0.02	c0.45		0.01	0.01		c0.10	c0.03	
v/s Ratio Perm						0.34			0.00			0.09
v/c Ratio	0.70	0.44		0.62	0.85	0.63	0.62	0.16	0.02	0.80	0.14	0.09
Uniform Delay, d1	46.3	11.7		50.4	20.9	17.2	51.7	44.5	44.0	45.1	35.2	0.0
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	6.2	0.1		16.1	3.7	1.5	32.4	0.2	0.1	9.9	0.2	0.1
Delay (s)	52.5	11.8		66.4	24.6	18.6	84.1	44.7	44.0	55.0	35.3	0.1
Level of Service	D	В		E	C	В	F	D	D	E	D	Α
Approach Delay (s)		17.9			23.3			52.4			38.4	
Approach LOS		В			C			D			D	
Intersection Summary												
HCM Average Control Do			23.8	F	ICM Lev	vel of Sea	vice		C			
HCM Volume to Capacity	ratio		0.72									
Actuated Cycle Length (s)	)		106.1	S	um of lo	st time (	s)		12.0			
Intersection Capacity Util	ization		77.5%	I	CU Leve	el of Serv	rice		D			
Analysis Period (min)			15									
c Critical Lane Group												

136: Pacific Coast Hwy & Newland

	٠	<b>→</b>	•	•	-	•		<b>†</b>	<b>/</b>	-	<b>↓</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	ተተተ	7	7	ተተተ	7		414			<b>-</b>	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0		4.0	4.0		4.0			4.0	4.0
Lane Util. Factor	1.00	0.91	1.00		0.91	1.00		0.95			1.00	1.00
Frt	1.00	1.00	0.85		1.00	0.85		1.00			1.00	0.85
Flt Protected	0.95	1.00	1.00		1.00	1.00		1.00			0.95	1.00
Satd. Flow (prot)	1770	5085	1583		5085	1583		3539			1770	1583
Flt Permitted	0.95	1.00	1.00		1.00	1.00		1.00			0.75	1.00
Satd. Flow (perm)	1770	5085	1583		5085	1583		3539			1398	1583
Volume (vph)	200	1424	10	0	2309	320	0	10	0	110	0	210
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	200	1424	10	0	2309	320	0	10	0	110	0	210
RTOR Reduction (vph)	0	0	2	0	0	135	0	0	0	0	0	182
Lane Group Flow (vph)	200	1424	8	0	2309	185	0	10	0	0	110	28
Turn Type	Prot		Perm	Prot		Perm	Perm	_		Perm		Perm
Protected Phases	7	4		3	8			2			6	
Permitted Phases			4			8	2			6		6
Actuated Green, G (s)	15.6	74.4	74.4		54.8	54.8		12.6			12.6	12.6
Effective Green, g (s)	15.6	74.4	74.4		54.8	54.8		12.6			12.6	12.6
Actuated g/C Ratio	0.16	0.78	0.78		0.58	0.58		0.13			0.13	0.13
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0		4.0			4.0	4.0
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0		3.0			3.0	3.0
Lane Grp Cap (vph)	291	3982	1240		2933	913		469			185	210
v/s Ratio Prot	c0.11	0.28			c0.45			0.00				
v/s Ratio Perm			0.00			0.12					c0.08	0.02
v/c Ratio	0.69	0.36	0.01		0.79	0.20		0.02			0.59	0.13
Uniform Delay, d1	37.4	3.1	2.2		15.6	9.6		35.8			38.8	36.4
Progression Factor	1.00	1.00	1.00		1.00	1.00		1.00			1.00	1.00
Incremental Delay, d2	6.6	0.1	0.0		1.5	0.1		0.0			5.1	0.3
Delay (s)	44.0	3.2	2.2		17.0	9.7		35.9			43.8	36.7
Level of Service	D	Α	Α		В	Α		D			D	D
Approach Delay (s)		8.2			16.2			35.9			39.1	
Approach LOS		Α			В			D			D	
Intersection Summary												
HCM Average Control De	elay		14.9	I	ICM Lev	vel of Se	rvice	_	В			
HCM Volume to Capacity	y ratio		0.74									
Actuated Cycle Length (s	)		95.0	S	Sum of lo	st time (	s)		12.0			
Intersection Capacity Util	ization		78.5%	I	CU Leve	el of Serv	rice		D			
Analysis Period (min)			15									
c Critical Lane Group												

## 137: Pacific Coast Hwy & Magnolia

	۶	<b>→</b>	•	•	<b>←</b>	4	1	†	<i>&gt;</i>	-	<b>↓</b>	-√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	75	ተተተ	7	7	ተተተ	7	ሻ	4		ř	€	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91	1.00	0.95	0.95		0.95	0.95	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.96		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	0.97	1.00
Satd. Flow (prot)	1770	5085	1583	1770	5085	1583	1681	1703		1681	1719	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	0.97	1.00
Satd. Flow (perm)	1770	5085	1583	1770	5085	1583	1681	1703		1681	1719	1583
Volume (vph)	150	1303	30	30	2659	200	20	30	10	110	30	100
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	150	1303	30	30	2659	200	20	30	10	110	30	100
RTOR Reduction (vph)	0	0	10	0	0	72	0	9	0	0	0	91
Lane Group Flow (vph)	150	1303	20	30	2659	128	20	31	0	68	72	9
Turn Type	Prot		Perm	Prot		Perm	Split	_		Split		Perm
Protected Phases	7	4		3	8		2	2		6	6	
Permitted Phases			4			8						6
Actuated Green, G (s)	10.0	69.3	69.3	3.5	62.8	62.8	7.4	7.4		9.7	9.7	9.7
Effective Green, g (s)	10.0	69.3	69.3	3.5	62.8	62.8	7.4	7.4		9.7	9.7	9.7
Actuated g/C Ratio	0.09	0.65	0.65	0.03	0.59	0.59	0.07	0.07		0.09	0.09	0.09
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	167	3328	1036	58	3015	939	117	119		154	157	145
v/s Ratio Prot	c0.08	0.26		0.02	c0.52		0.01	c0.02		0.04	c0.04	
v/s Ratio Perm			0.01			0.08						0.01
v/c Ratio	0.90	0.39	0.02	0.52	0.88	0.14	0.17	0.26		0.44	0.46	0.06
Uniform Delay, d1	47.4	8.5	6.4	50.4	18.4	9.5	46.4	46.6		45.5	45.6	43.9
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	41.2	0.1	0.0	7.6	3.4	0.1	0.7	1.2		2.0	2.1	0.2
Delay (s)	88.7	8.6	6.4	58.0	21.8	9.6	47.1	47.8		47.6	47.7	44.1
Level of Service	$\mathbf{F}$	Α	Α	$\mathbf{E}$	C	Α	D	D		D	D	D
Approach Delay (s)		16.6			21.3			47.6			46.2	
Approach LOS		В			C			D			D	
Intersection Summary								_		_		
HCM Average Control D	•		21.4	F	ICM Le	vel of Se	rvice		C			
HCM Volume to Capacity			0.79									
Actuated Cycle Length (s	)		105.9			ost time (			16.0			
Intersection Capacity Util	ization		80.2%	I	CU Leve	el of Serv	rice		D			
Analysis Period (min)			15									
<ul> <li>c Critical Lane Group</li> </ul>												

	•	<u>→</u>	•	<b>√</b>	<b>←</b>	•	•	<u></u>	<u> </u>	<b>\</b>	<del> </del>	<del>-</del> ✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>	7	ሻ	ተተተ	7	ሻ	7		ሻሻ	<b>†</b>	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0
Lane Util. Factor	1.00	0.91	1.00	1.00	0.91	1.00	1.00	1.00		0.97	1.00	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.94		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	1770	5085	1583	1770	5085	1583	1770	1743		3433	1863	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	1770	5085	1583	1770	5085	1583	1770	1743		3433	1863	1583
Volume (vph)	230	1493	10	20	2209	550	20	40	30	290	30	160
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	230	1493	10	20	2209	550	20	40	30	290	30	160
RTOR Reduction (vph)	0	0	4	0	0	181	0	24	0	0	0	140
Lane Group Flow (vph)	230	1493	6	20	2209	369	20	46	0	290	30	20
Turn Type	Prot		Perm	Prot		pm+ov	Split			Split		Perm
Protected Phases	7	4		3	8	6	2	2		6	6	
Permitted Phases			4			8						6
Actuated Green, G (s)	16.3	69.1	69.1	1.9	54.7	68.7	8.4	8.4		14.0	14.0	14.0
Effective Green, g (s)	16.3	69.1	69.1	1.9	54.7	68.7	8.4	8.4		14.0	14.0	14.0
Actuated g/C Ratio	0.15	0.63	0.63	0.02	0.50	0.63	0.08	0.08		0.13	0.13	0.13
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	264	3212	1000	31	2543	994	136	134		439	238	203
v/s Ratio Prot	c0.13	0.29		0.01	c0.43	0.05	0.01	c0.03		c0.08	0.02	
v/s Ratio Perm			0.00			0.19						0.01
v/c Ratio	0.87	0.46	0.01	0.65	0.87	0.37	0.15	0.34		0.66	0.13	0.10
Uniform Delay, d1	45.5	10.5	7.5	53.4	24.2	9.9	47.2	47.9		45.4	42.3	42.1
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	25.4	0.1	0.0	37.9	3.4	0.2	0.5	1.5		3.7	0.2	0.2
Delay (s)	70.9	10.6	7.5	91.3	27.6	10.1	47.7	49.4		49.1	42.5	42.4
Level of Service	E	В	Α	F	C	В	D	D		D	D	D
Approach Delay (s)		18.6			24.6			49.0			46.5	
Approach LOS		В			C			D			D	
Intersection Summary												
HCM Average Control De	•		25.1	H	ICM Le	vel of Se	rvice		C			
HCM Volume to Capacity	y ratio		0.79									
Actuated Cycle Length (s	,		109.4	S	um of l	ost time (	s)	16.0				
Intersection Capacity Utilization 8		80.4%	I	CU Lev	el of Serv	vice	D					
Analysis Period (min)			15									
<ul> <li>c Critical Lane Group</li> </ul>												

		ALL-WA	AY STOP C	ONTROL A	ANALYSIS		, , ,				
General Information				Site Information							
Analyst SA				Intersection		Lake S	Lake Street/6th Street				
Agency/Co.				Jurisdiction			2030 Base Case+Project+Alt 2				
Date Performed	3/31/200			Analysis Year	t+Alt 2						
Analysis Time Period	PM Pea	<u>k</u>		<u> </u>							
Project ID											
East/West Street: 6th Street				North/South Str	eet: Lake Street						
Volume Adjustments a	nd Site Chara										
Approach Movement	<del></del>	Ea			<del></del> -	Wes					
Volume (veh/h)	L 49	_	70	T R 68		10		30			
%Thrus Left Lane	73	<del></del>	<del></del>	70 88			80				
Approach			Northbound		+	Sou	thbound				
Movement	<del>                                     </del>		T			300	T T	R			
Volume (veh/h)	44		290	30	40		255	114			
%Thrus Left Lane											
	East	Eastbound		Westbound		bound	Southbound				
	L1	L2	L1	L2	L1	L2	L1	L2			
Configuration	LTR		LTR		LTR		LTR				
PHF	1.00	-	1.00		1.00		1.00				
Flow Rate (veh/h)	187		120		364		409				
% Heavy Vehicles	0				0		0	<del>                                     </del>			
No. Lanes		1		0			<del>                                       </del>	<u> </u>			
Geometry Group	1		<del>                                     </del>	1	1			<u>.</u>			
Duration, T	1	0.25									
Saturation Headway A	djustment Wo	rksheet									
Prop. Left-Turns	0.3		0.1		0.1		0.1				
Prop. Right-Turns	0.4		0.3		0.1		0.3				
Prop. Heavy Vehicle	0.0		0.0		0.0		0.0	<del></del>			
hLT-adj	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
hRT-adj	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6			
hHV-adj	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7			
hadj, computed	-0.2	1.7	-0.1	1.7	-0.0	<del></del>	-0.1	1.7			
Departure Headway an			-0.1	<u> </u>	-0.0		-0.1				
		ie	T 2.00		1 000		1 000				
hd, initial value (s)	3.20		3.20		3.20	_	3.20				
x, initial hd, final value (s)	0.17		0.11		0.32 5.54		0.36				
x, final value	6.13 0.32			6.34		<del></del>	5.37				
Move-up time, m (s)	0.32 2.			0.21		0	0.61				
	4.1	<u> </u>	4.3	2.0		<u> </u>	3.4	. <i>0</i> T			
Service Time, t <sub>s</sub> (s)			4.3		3.5	<u> </u>	3.4				
Capacity and Level of	<del></del>		·		T	<del></del>	<del></del>				
		oound		Westbound		bound		nbound			
	L1	L2	L1	L2	L1	L2	L1	L2			
Capacity (veh/h)	437		370		614		643				
Delay (s/veh)	11.96		11.03		15.38		16.38				
LOS	В		В		С		С				
Approach: Delay (s/veh)	1	1.96	11	11.03		38	16.38				
LOS		B B C									
Intersection Delay (s/veh)					1.68						
Intersection LOS		В									

		ALL-WA	Y STOP CO	ONTROL A	NALYSIS	•				
General Information				Site Informa	ation					
Analyst SA				Intersection		Lake S	treet/Orange Aver	nue		
Agency/Co.				Jurisdiction		2020 B		1.44.2		
Date Performed				Analysis Year		2030 8	lase Case+Project	TAIL 2		
Analysis Time Period	PM Peak									
Project ID	nuo			North/South Str	eet: Lake Street					
East/West Street: Orange Aver		-4		North/South Stre	eet. Lake Street					
Volume Adjustments a Approach	ing Site Chara		astbound				Westbound			
Movement	L	L		T R		L		R		
Volume (veh/h)	45		364	364 73			394	143		
%Thrus Left Lane										
Approach			lorthbound			Sou				
Movement	118		148	R	L 44		T 232	63		
Volume (veh/h)	110			104	164 44		232			
%Thrus Left Lane					<del>-</del>		<del></del>			
	Eastb			bound		bound		nbound		
	L1	L2	L1	L2	L1	L2	L1	L2		
Configuration	LTR		LTR		LTR		LTR			
PHF	1.00		1.00 691		1.00		1.00			
Flow Rate (veh/h)		482			430		339			
% Heavy Vehicles	_	0			0	<u> </u>	0			
No. Lanes	1		1		1		+	<u>1</u> 1		
Geometry Group	<del>-</del>	0.25								
Duration, T	aliana 4 mara a mata 14/a				20					
Saturation Headway A		rksneet	T	1	T 00	Т	1 04			
Prop. Left-Turns	0.1		0.2		0.3		0.1	_		
Prop. Right-Turns	0.2		0.2		0.4		0.2	<b>_</b>		
Prop. Heavy Vehicle	0.0		0.0		0.0		0.0			
hLT-adj	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
hRT-adj	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6		
hHV-adj	1.7	1.7	1.7	1.7	1.7 -0.2	1.7	1.7	1.7		
hadj, computed		-0.1		-0.1			-0.1			
Departure Headway an	nd Service Tim	ie								
hd, initial value (s)	3.20		3.20		3.20 0.38		3.20			
x, initial	0.43		0.61				0.30 9.72			
hd, final value (s)	9.51		_	9.50		9.40				
x, final value	1.27		1.82	<u> </u>	1.12		0.92	<u> </u>		
Move-up time, m (s)	2.	0	2.	. <i>0</i>		2.0		.0		
Service Time, t <sub>s</sub> (s)	7.5		7.5		7.4		7.7			
Capacity and Level of	Service									
	Eastt	oound	West	bound	Northbound		Southbound			
	L1	L2	L1	L2	L1	L2	L1	L2		
Capacity (veh/h)	482		691		430		371			
Delay (s/veh)	170.11		403.28		114.44		59.83			
LOS	F		F		F		F			
		0.11	_	403.28		1 11		83		
Approach: Delay (s/veh)	1/	0.11					59.83			
LOS		F F F F								
Intersection Delay (s/veh)					1.50 F					
Intersection LOS					Г					

108: Atlanta & Beach

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ď	<b>十</b> 十	7	'n	ተተ	7	Ŋ	ተተጉ		ሻ	ተተኩ		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0		
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.91		1.00	0.91		
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.98		1.00	0.97		
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00		
Satd. Flow (prot)	1770	3539	1583	1770	3539	1583	1770	4998		1770	4934		
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00		
Satd. Flow (perm)	1770	3539	1583	1770	3539	1583	1770	4998		1770	<u>49</u> 34		
Volume (vph)	248	588	30	78	547	220	90	917	118	310	547	135	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Adj. Flow (vph)	248	588	30	78	547	220	90	917	118	310	547	135	
RTOR Reduction (vph)	0	0	21	0	0	176	0	13	0	0	34	0	
Lane Group Flow (vph)	248	588	9	78	547	44	90	1022	0	310	648	0	
Turn Type	Prot		Perm	Prot		Perm	Prot			Prot			
Protected Phases	7	4		3	8		5	2		1	6		
Permitted Phases			4			8							
Actuated Green, G (s)	18.2	31.6	31.6	7.3	20.7	20.7	7.9	27.3		21.6	41.0		
Effective Green, g (s)	18.2	31.6	31.6	7.3	20.7	20.7	7.9	27.3		21.6	41.0		
Actuated g/C Ratio	0.18	0.30	0.30	0.07	0.20	0.20	0.08	0.26		0.21	0.39		
Clearance Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0		
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0		
Lane Grp Cap (vph)	310	1077	482	124	706	316	135	1315		368	1949		
v/s Ratio Prot	c0.14	0.17		0.04	c0.15		0.05	c0.20		c0.18	0.13		
v/s Ratio Perm			0.01			0.03							
v/c Ratio	0.80	0.55	0.02	0.63	0.77	0.14	0.67	0.78		0.84	0.33		
Uniform Delay, d1	41.1	30.1	25.3	46.9	39.3	34.2	46.7	35.4		39.5	21.9		
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		
Incremental Delay, d2	13.7	0.6	0.0	9.6	5.3	0.2	11.8	3.0		15.9	0.1		
Delay (s)	54.8	30.7	25.3	56.5	44.7	34.4	58.4	38.4		55.4	22.0		
Level of Service	D	C	C	E	D	C	$\mathbf{E}$	D		E	C		
Approach Delay (s)		37.4			43.1			40.0			32.4		
Approach LOS		D			D			D			С		
Intersection Summary													
HCM Average Control De	-		38.1	ŀ	ICM Lev	vel of Ser	vice		D				
HCM Volume to Capacity			0.80										
Actuated Cycle Length (s)			103.8						16.0	5.0			
Intersection Capacity Util	ization		79.7%	I	CU Leve	el of Serv	rice		D				
Analysis Period (min)			15										
c Critical Lane Group													